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**PATENT APPLICATION**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of

Docket No: Q94801

Hiroshi SAKURAI, et al.

Appln. No.: 10/578,776

Group Art Unit: UNKNOWN

Confirmation No.: 6191

Examiner: UNKNOWN

Filed: May 9, 2006

For: CARBON FIBER NONWOVEN FABRIC, AND PRODUCTION METHOD AND USE THEREOF

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. §§ 1.97 and 1.98**

**MAIL STOP AMENDMENT**

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

One copy of each of the listed documents is submitted herewith, except for the following: U.S. patents and/or U.S. patent publications; and co-pending non-provisional U.S. applications filed after June 30, 2003.

The present Information Disclosure Statement is being filed no later than three months from the application's filing date, and therefore no Statement under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

Documents 10 - 17 noted below were previously cited in the Information Disclosure Statement filed May 9, 2006, as documents that were cited in International Search Report; copies and English language Abstracts thereof have been obtained and are provided herewith.

In compliance with the concise explanation requirement under 37 C.F.R. § 1.98(a)(3) for foreign language documents, Applicant submits the following:

1. The disclosure on page 2 of the present specification and the submission of an English language abstract for JP-A 62-90863 each constitutes a concise statement of relevance of JP-A 62-90863; furthermore, U.S. Patent 4,668,595 cited herein corresponds to the JP 62-90863.
2. The disclosure on page 3 of the present specification and the submission of an English language abstract for JP-A 8-119614 each constitutes a concise statement of relevance of JP-A 8-119614; furthermore, U.S. Patent 5,956,225 cited herein corresponds to the JP 8-119614.
3. The disclosure on page 4 of the present specification and the submission of an English language abstract of A. NAGAE, *POROSITY CONTROL AND ABSORPTION PROPERTIES OF POROUS CARBONS PREPARED FROM PHENOL RESIN*, Summary of the 29<sup>th</sup> Carbon Society Annual Meeting (2002), pages 92 - 93 (NAGAE) each constitutes a concise statement of relevance of NAGAE.
4. The disclosure on page 4 of the present specification and the English language abstract of JP-A 2002-363858 submitted herewith each constitutes a concise statement of relevance of JP-A 2002-363858.

5. The disclosure on page 5 of the present specification and the English language abstract of JP-A 2003-033666 submitted herewith each constitutes a concise statement of relevance of JP-A 2003-033666.

6. The disclosure on page 6 of the present specification and the submission of an English language abstract of JP-B 2641712 each constitutes a concise statement of relevance of JP-B 2641712; furthermore, U.S. Patent 5,578,543 cited herein corresponds to JP-B 2641712.

7. The disclosure on page 7 of the present specification and the submission of an English language abstract of JP-B 3034027 each constitutes a concise statement of relevance of JP-B 3034027; furthermore, U.S. Patent 5,611,964 cited herein corresponds to JP-B 3034027.

8. The disclosure on page 7 of the present specification and the submission of an English language abstract of JP-B 2640183 each constitutes a concise statement of relevance of JP-B 2640183.

9. The disclosure on page 7 of the present specification and the submission of an English language abstract of JP-A 2000-8227 submitted herewith constitutes a concise statement of relevance of JP-A 2000-8227.

10. The previously noted indication in the International Search Report of the degree of relevance found by the foreign patent office, and the present submission of an English language abstract for JP-A 1-282325 each constitutes a concise statement of relevance of JP-A 1-282325.

11. The previously noted indication in the International Search Report of the degree of relevance found by the foreign patent office, and the present submission of an English

language abstract for JP-A 2002-285457 each constitutes a concise statement of relevance of JP-A 2002-285457.

12. The previously noted indication in the International Search Report of the degree of relevance found by the foreign patent office, and the present submission of an English language abstract for WO 98/38140 each constitutes a concise statement of relevance of WO 98/38140.

13. The previously noted indication in the International Search Report of the degree of relevance found by the foreign patent office, and the present submission of an English language abstract for JP-B 2646140 each constitutes a concise statement of relevance of JP-B 2646140.

14. The previously noted indication in the International Search Report of the degree of relevance found by the foreign patent office, and the present submission of an English language abstract for JP-A 5-195396 each constitutes a concise statement of relevance of JP-A 5-195396.

15. The previously noted indication in the International Search Report of the degree of relevance found by the foreign patent office, and the present submission of an English language abstract for JP-A 3-8811 each constitutes a concise statement of relevance of JP-A 3-8811.

16. The previously noted indication in the International Search Report of the degree of relevance found by the foreign patent office, and the present submission of an English


language abstract for JP-A 11-335930 each constitutes a concise statement of relevance of JP-A 11-335930.

17. The previously noted indication in the International Search Report of the degree of relevance found by the foreign patent office, and the present submission of an English language abstract for JP-A 2004-176236 each constitutes a concise statement of relevance of JP-A 2004-176236.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,

  
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WASHINGTON OFFICE

**23373**

CUSTOMER NUMBER

Date: August 3, 2006

Substitute for Form 1449 A &amp; B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number	10/578,776
Confirmation Number	6191
Filing Date	May 9, 2006
First Named Inventor	Hiroshi SAKURAI
Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	Q94801

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
		US 4,668,595		05-26-1987	Toshino et al.
		US 5,956,225		09-21-1999	Okuyama et al.
		US 5,578,543		11-26-1996	Tennent et al.
		US 5,611,964		03-18-1997	Friend et al.
		US			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
		JP	62-90863	A	04-25-1987	ASAHI CHEMICAL CO LTD	Spec, Abstract and corresponds to USP '595
		JP	8-119614	A	05-14-1996	MITSUBISHI CHEM CORP	Spec., Abstract and corresponds to USP '225
		JP	2002-363858	A	12-18-2002	KURIHARA HIDENORI; SANYO ELECTRIC CO	Spec. and Abstract
		JP	2003-33666	A	02-04-2003	DENSO CORP; NAT INST OF ADV IND & TECHNOL	Spec. and Abstract
		JP Patent No.	2641712	B			Spec. and Corresponds to USP '543

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>
		A. NAGAE et al, <i>POROSITY CONTROL AND ABSORPTION PROPERTIES OF POROUS CARBONS PREPARED FROM PHENOL RESIN</i> , Summary of the 29 <sup>th</sup> Carbon Society Annual Meeting (2002), pages 92 - 93	Abstract
		A. OYA et al, <i>PREPARATION OF THIN CARBON FIBERS FROM PHENOL-FORMALDEHYDE POLYMER MICRO-BEADS DISPERSED IN POLYETHYLENE MATRIX</i> , Carbon 38, (2000), pages 1141-1144	

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or follow the hyperlink from the title of the document to the intranet. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to indicate here if English language Translation is attached.

Substitute for Form 1449 A & B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				<i>Complete if Known</i>	
				Application Number	10/578,776
				Confirmation Number	6191
				Filing Date	May 9, 2006
				First Named Inventor	Hiroshi SAKURAI
				Art Unit	UNKNOWN
				Examiner Name	UNKNOWN
Sheet	2	of	2	Attorney Docket Number	Q94801

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
		US			
		US			
		US			

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
		JP Patent No.	3034027	B			Spec. and Corresponds to USP '964
		JP Patent No.	2640183	B			Spec and Abstract
		JP Patent No.	2000-8227	A	01-11-2000		Spec and Abstract
		JP	1-282325	A	11-14-1989	TORAY INDUSTRIES, INC.	ISR and Abstract
		JP	2002-285457	A	10-03-2002	OSAKA GAS CO., LTD.	ISR and Abstract
		WO	98/38140	A	09-30-1998	OSAKA GAS CO., LTD.	ISR and Abstract
		JP Patent No.	2646140	B	08-25-1997	PETOCA, LTD.	ISR and Abstract
		JP	5-195396	A	08-03-1993	PETOCA, LTD.	ISR and Abstract
		JP	3-8811	A	01-16-1991	PETOCA, LTD.	ISR and Abstract
		JP	11-335930	A	12-07-1999	PETOCA, LTD.	ISR and Abstract
		JP	2004-176236	A	06-24-2004	TEIJIN LTD.	ISR and Abstract

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>

Examiner Signature		Date Considered	
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<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or follow the hyperlink from the title of the document to the intranet. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to indicate here if English language Translation is attached.